eSATA ExpressCard/34

EX30S

User's Guide

Mar. / 2007 Rev 1.2

RATOC Systems, Inc.

Contents

1 Introduction ***2
-1. Package Contents ***2
-2. Layout ***2
-3. System Requirements ***3
-4. Specifications ***3
-5. Caution ***4

2 Setup ***5
-1. Installation on Windows System ***5
-2. To Verify Driver Installation (Windows) ***7
-3. Hot-plug tool (Windows) ***8
-4. Installation on Mac system ***10

3 Connecting/Removing eSATA drive ***11
-1. Windows ***11
-2. Mac ***15

4 Removing ExpressCard ***16
-1. How to remove EX30S on Windows ***16
-2. How to remove EX30S on Mac ***16

5 Registration & Tech-Support ***17
-1. Registration ***17
-2. Tech-Support ***17

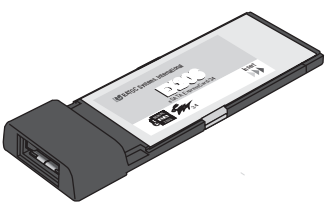
6 Appendix ***18

1 Introduction

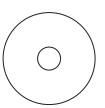
The EX30S is a high speed eSATA ExpressCard for use in ExpressCard enabled system. This user's guide describes how to install and use the EX30S. ReadMe file in the CD-ROM may include newer information. For the latest information, go to our home page.
http://www.ratocsystems.com/english.

1-1. Package Contents

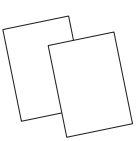
If any of these items are missing, contact the supplier immediately.



eSATA ExpressCard/34

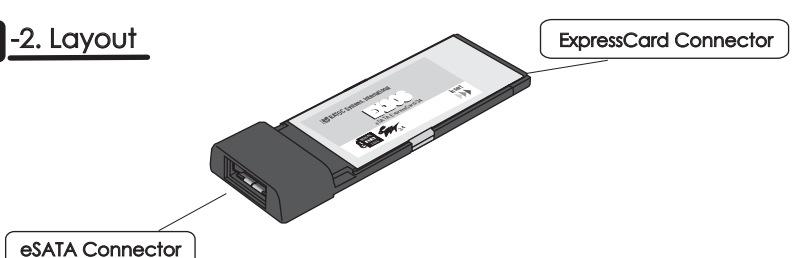


Software CD-ROM



Quick Install Guide
Appendix

1-2. Layout

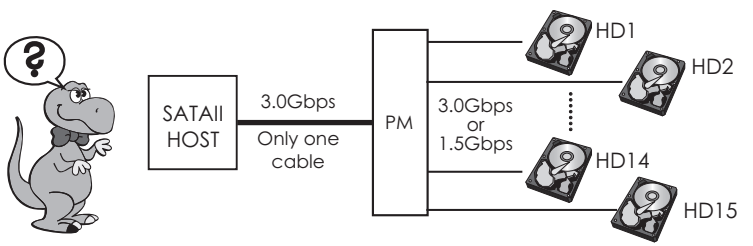


1-3. System Requirements

* OS	:	Windows Vista, Windows XP, Windows 2000, Windows 2000 Server, Windows Server 2003 Mac OS X 10.4 or later
* System	:	ExpressCard-enabled system with an ExpressCard/34 or an ExpressCard/54 slot
* Device	:	Device with an eSATA connector(**Support Port Multiplier)**

What's Port Multiplier(PM)?

Port multipliers are silicon-based devices that allow a single Serial ATA port to communicate with multiple drives. It is possible to connect up to 15 drives to one SATA PM port via a port multiplier.



1-4. Specification

Part number	EX30S
Product name	eSATA ExpressCard/34
Bus interface	ExpressCard/34(ExpressCard Standard Release 1.0) PCI Express-based module
SATA Controller	Sil3132 (SATA II Compliant)
Connector	eSATA connector x 1 ***1**
Transfer rate	3.0Gbps/1.5Gbps (theoretical number)
Voltage	DC +3.3V (Supplied by ExpressCard slot)
Power Consumption	520mA (TYP) Standby: 380mA (TYP)
Dimensions	34mm(W) x 100mm(L) x 11mm(H)
Weight	24.5g
Bundled software	Driver software, Hot-plug utility(Windows only)
Warranty	1 Year

*1 The eSATA connector is different from the SATA connector.

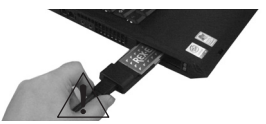
1-5. Caution

The EX30S is compliant with ExpressCard specification. But some system does not have a lock for the ExpressCard. In this case, the ExpressCard may be removed easily from the ExpressCard slot. Sudden removal of the EX30S card may cause system error.

⚠ Caution

In following cases, the EX30S may be removed from the ExpressCard slot.

* When removing the eSATA cable from the EX30S.



* When moving whole system, the card may be pulled by the cable.

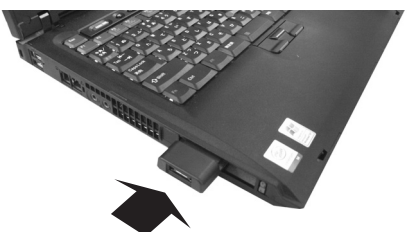
2 Setup

Refer to 2-3, for the installation on Mac system.

2-1. Installation on Windows system

1. Power on and start the system.
2. Put the ExpressCard in the ExpressCard slot.

The EX30S works on both ExpressCard/34 slot and ExpressCard/54 slot.



Note

Insert the card while the system is powered

⚠ Caution

Be careful that the card is not removed from the slot while setup process.

Windows XP, Server 2003

1. When the ExpressCard is inserted, **Found New Hardware Wizard** shows up. Insert software CD-ROM.

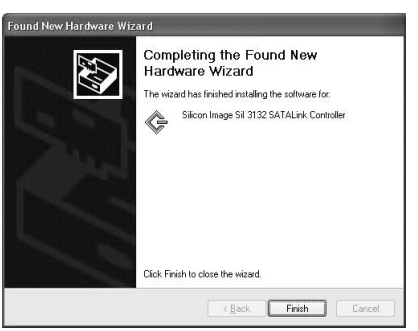
   At the right window, select **No, not at this time**, then click **Next**.

   * If internet connection is available, the driver can be downloaded from Microsoft Windows Update.

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission).
Online privacy information
Can Windows connect to Windows Update to search for software?
Yes, this time only
Yes, now and every time I connect a device
No, not this time
Click Next to continue.
< Back
Next >
Cancel

2. Select **Install the software automatically(Recommended)**, and click **Next**.

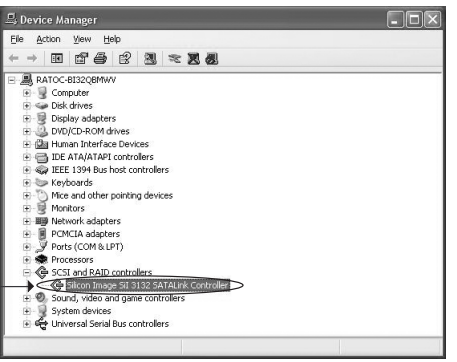
3. If the driver is installed properly, right window shows up. Click **Finish**.


Found New Hardware Wizard
Completing the Found New Hardware Wizard
The wizard has finished installing the software for:
Silicon Image Sil 3132 SATALink Controller
Click Finish to close the wizard.
< Back
Finish
Cancel

2 -2. To Verify Driver Installation

1. Open Device Manager. (To open the Device Manager, go to **Start** - Right click **My Computer** - **Properties** - **Hardware** - **Device Manager**)

2. On the device manager, double click on **SCSI and RAID controllers**. Make sure if **Silicon Image SII3132 SATALink Controller** is registered properly.



If **Silicon Image SII3132 SATA Link Controller** is shown without yellow **!** point, the driver is installed properly.

2 -3. HotPlug Tool (Windows)

What's HotPlug Tool

HotPlug Tool allows to remove the eSATA drive connected to the EX30S without the system shut down. If the eSATA drive needs to be removed from the EX30S before shut down, install the HotPlug Tool.

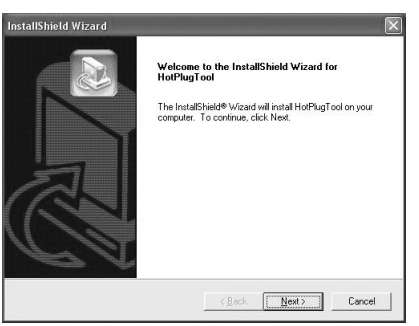
Install HotPlug Tool

1. Insert software CD-ROM.

2. Open the CD-ROM and click HotPlugTool folder.
   Double click on SetupHotPlugTool.exe.

* File extension(.exe) may not be shown.

3. Installer will be launched. Follow the instructions.


InstallShield Wizard
Welcome to the InstallShield Wizard for HotPlugTool
The InstallShield® Wizard will install HotPlugTool on your computer. To continue, click Next.
< Back
Next >
Cancel

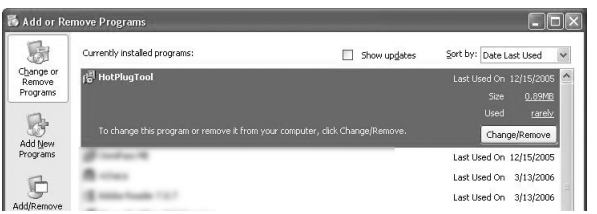
4. Click **Finish** and launch HotPlug **Tool**.

InstallShield Wizard
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed HotPlugTool. Click Finish to exit the wizard.
I would like to launch HotPlugTool
< Back
Finish
Cancel

Uninstall HotPlug Tool

1. Open **Add or Remove Programs** from Control Panel.

2. Select **HotPlugTool** and click **Change or Remove Programs**.



3. Click **OK** at following window.

4. HotPlug Tool will be uninstalled. Click **Finish**.

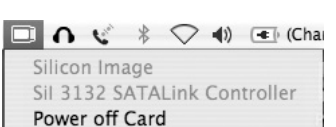
2-4. Installation on Mac System

1. Insert software CD-ROM. Double click on **Sil3132_1.1.6u_Sil_Pkg** and follow the instructions.

Install Sil3132 Mac OS X Driver
Welcome to the Sil3132 Mac OS X Driver Installer
Introduction
Read Me
License
Select Destination
Installation Type
Install
Finish Up
Welcome to the Mac OS X Installation Program. You will be guided through the steps necessary to install this software.
Go Back
Continue

2. Restart the system and insert the EX30S to ExpressCard slot.

3. Card icon will be shown on the Apple menu bar.



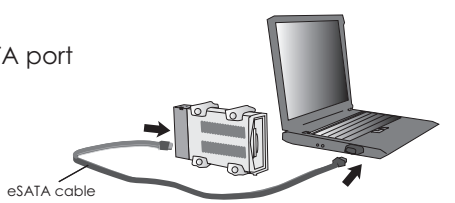
3 Connecting/Removing eSATA drive

3-1. How to use HotPlug Tool (Windows Only)

⚠ Caution

* HotPlug tool can not be used for removing ExpressCard.
* When removing eSATA drive, follow the instructions in this chapter. Removing eSATA drive without HotPlug Tool may cause data loss or physical defect of eSATA drive.
* ExpressCard may be removed easily from the ExpressCard slot. Sudden removal of the EX30S card may cause system error.

1. Connect eSATA cable to eSATA port of the ExpressCard and eSATA drive.



2. **If the system recognizes the eSATA drive, the icon of HotPlug Tool will** be shown in the task tray.

   To remove eSATA drive, click the icon of HotPlug Tool.

Note

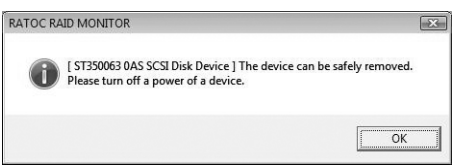
* HotPlug Tool runs in the background.
* If the icon does not show up, install the HotPlug Tool. Refer to page 8.
* If an eSATA drive is not connected, the icon does not show up.

3. The eSATA drives connected to the EX30S will be listed by clicking the icon in the task tray.

eSATA drives connected to the EX30S are shown as **SCSI Disk Device**.

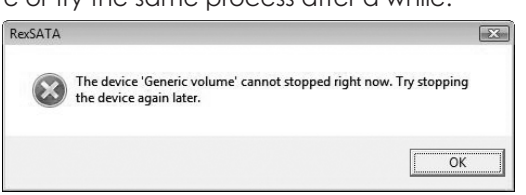
4. Click on the drive that you would like to remove.

5. If following window appears. The drive can be removed. Click OK.



⚠ Caution

If following message appears. the drive can not be removed. The other software may use the drive. Make sure if other software is not using the drive or try the same process after a while.



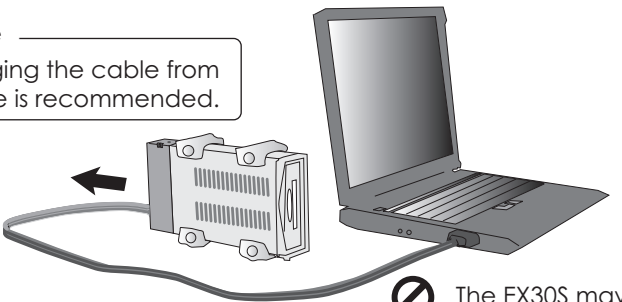
Software which scans hard drives like an anti virus software may prevent HotPlug Tool from removing eSATA drive.

Don't remove hard drive forcibly. That may cause data loss or physical defect of eSATA drive.

6. Unplug the eSATA cable.

Note

Unplugging the cable from the drive is recommended.



The EX30S may be removed easily from the ExpressCard slot.

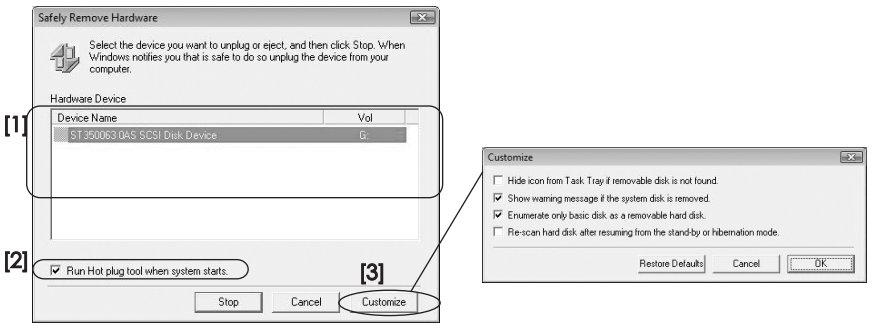
Caution

Unplugging the eSATA cable from the eSATA drive is highly recommended.

ExpressCard may be removed easily from the ExpressCard slot.
Be careful that the ExpressCard card will not be removed by pulling the eSATA cable. Sudden removal of the EX30S card may cause system error.

HotPlug Tool Window

Double click HotPlug Tool icon in the task tray to open HotPlug Tool window.


Safely Remove Hardware
Select the device you want to unplug or eject, and then click Stop. When Windows notifies you that is safe to do so unplug the device from your computer.
Hardware Device
[1]
Device Name
Vol
ST350063 0AS SCSI Disk Device
G:
[2]
Run Hot plug tool when system starts.
[3]
Stop
Cancel
Customize
Customize
Hide icon from Task Tray if removable disk is not found.
Show warning message if the system disk is removed.
Enumerate only basic disk as a removable hard disk.
Re-scan hard disk after resuming from the stand-by or hibernation mode.
Restore Defaults
Cancel
OK

[1] Removing eSATA drive

Connected eSATA drives will be listed. Select the drive and click **Stop** button to remove the drive.

Note

Drive set as Dynamic disk will not be listed, even if the drive is connected. Dynamic disk is not supported by hot plugging.

[2] Change HotPlug Tool setting

If the check box is checked, HotPlug Tool runs in the pack ground. If it is unchecked, HotPlug Tool will not run automatically at the next start.

* To start HotPlug Tool, go to **Start** - **Program** - **Hot plug tool** and select HotPlug Tool.

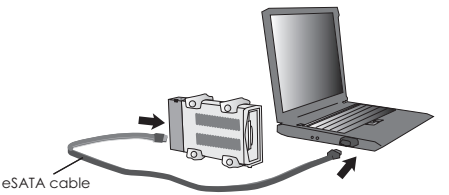
[3] Customize

You can customize HotPlug Tool function.

* Hide icon from Task Tray, if removable disk is not found.
  If unchecked, the icon shows all the time.
* Show warning message, if the system disk is removed.
  Checked is recommended.
* Enumerate only basic disk as a removable disk.
  Checked is recommended.
* Rescan hard disk after resuming from stanby or hibernation mode.
  Check, If the hard disk is not recognize after resuming.

3 -2. Connecting/Removing eSATA drive on Mac

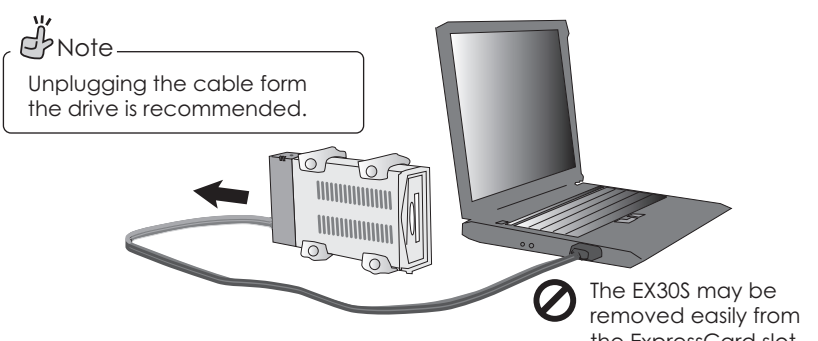
1. Connect eSATA cable to eSATA port of the ExpressCard and eSATA drive.



2. If the drive is formatted properly, drive will be mounted.

3. On Mac system, software is not necessary to remove eSATA drive. Just trash the icon of the eSATA drive (Drag and drop the icon to trash) before unplugging eSATA cable.

4. Remove the eSATA cable carefully.



4 Removing ExpressCard

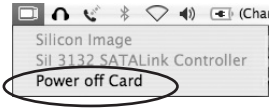
4-1. How to remove EX30S on Windows

1. Click **Safely Remove Hardware** icon in the task tray.

2. Select **Silicon Image Sil3132 SATALink Controller** to remove the EX30S ExpressCard.

4-2. How to remove EX30S on Mac

Click a small card icon upper right side of the screen and select **Power off Card** to remove the EX30S ExpressCard.



5 Registration & Tech-support

Registration

We highly recommend to register the product through our on-line registration.
http://www.ratocsystems.com/english/

Software Update and Support

The latest software is subject to change for improvement or bug fix.
You can download the latest version from our web site.
http://www.ratocsystems.com/english/

Technical Support

If you have any question, please feel free to contact to our tech-support:

Open 9:30AM-5:00PM(PST) Mon-Fri(except holidays)
RATOC Systems International, Inc. Tech support
Address: 2000 Wyatt drive
Suite 9
Santa Clara, CA 95054
TEL: 408-986-9040 FAX: 408-986-9042

E-mail: **http://www.ratocsystems.com/english/contact/support.html**

6 Appendix

Trademarks

-Windows is a registered trademark of Microsoft Corporation.
-MacOS, PowerMacintosh, PowerBook and Mac logo are registered trademarks of Apple Computer, Inc.
-Other brand and product names may be registered trademarks or trademarks of their respective holders.

Regulatory Agency Notice FCC Compliance Statement This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
(1) Reorient or relocate the receiving antenna.
(2) Increase the separation between the equipment and receiver.
(3) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
(4) Consult the dealer or an experienced radio/TV technician for help.
Changes or modifications not expressly approved by the party responsible for compliance may result in this unit not complying with FCC Rules Part 15.

http://www.ratocsystems.com/

© RATOC Systems, Inc. All rights reserved.